

water softeners



why a hydro wellness water softener?

When you buy a Hydro Wellness water softener you are buying a quality product that will last you for years. All the components used are picked for their functionality and durability.

advantages of hydro wellness softener

- Quality fibre glass vessel
- Maximum pressure of 6bar
- Quality brine tank with bottom grid to filter large particles and prevent blockages
- Brine valve in protective well
- Brine valve with ball valve to prevent over filling
- Reliable mechanical F11 analogue valves
- Metered and day based heads available
- Quality softening resin



technical specifications

minimum pressure: 2bar
maximum pressure: 6bar
maximum flow rate: 2500lph
port size: 25mm
power consumption: 3watt

Disclaimer (full version available at <http://hydrowellness.co.za/disclaimer/>)

*Water softeners intended for household use and limits apply to water quality and quantity. Have your water tested before installing a water softener to ensure that it is the right solution.

water softeners







how does a water softener work?

Water softeners have been around for many years and is still the best solution available to get rid of lime scale in water. The process that water softeners use to remove lime from water is called ion exchange. Simply put ion exchange is when hardness ions (lime) in the water is replaced by sodium or potassium ions (salt). The resin beads are all loaded with sodium ions and when the water passes over the resin the sodium trades places with the calcium and magnesium in the water. The calcium and magnesium then stick to the resin. This is also why the water has a higher sodium content afterwards and can taste very different from before. The sodium however has no adverse effects when using the water.

Ion exchange water softening is one of the most cost effective and one of the only processes that completely removes lime scale from the water. Similar products may put the lime in suspension and protect elements such as pipes and geysers, while the water softener completely removes lime from the water. The removal of the lime from the water not only protects your elements but also provides you with soft water, which ensures cleaner laundry, dishes, hair and provides you with a significant saving in soap usage.

Schematic Legend

-  Calcium
-  Magnesium
-  Sodium
-  Ion Exchange Resin



Hard Water

Water containing calcium and magnesium ions

Ion Exchange Resin

Sodium ions replace calcium and magnesium ions in the water. Calcium and magnesium ions remain on resin

Soft Water

Water containing sodium ions instead of calcium and magnesium